



US Army Corps
of Engineers
Sacramento District

Introduction



Sacramento River Bank Protection Project:

Phase II Supplemental Authorization – WRDA 2007
Post Authorization – Plan of Study

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Sacramento River Bank Protection Project –

Outline

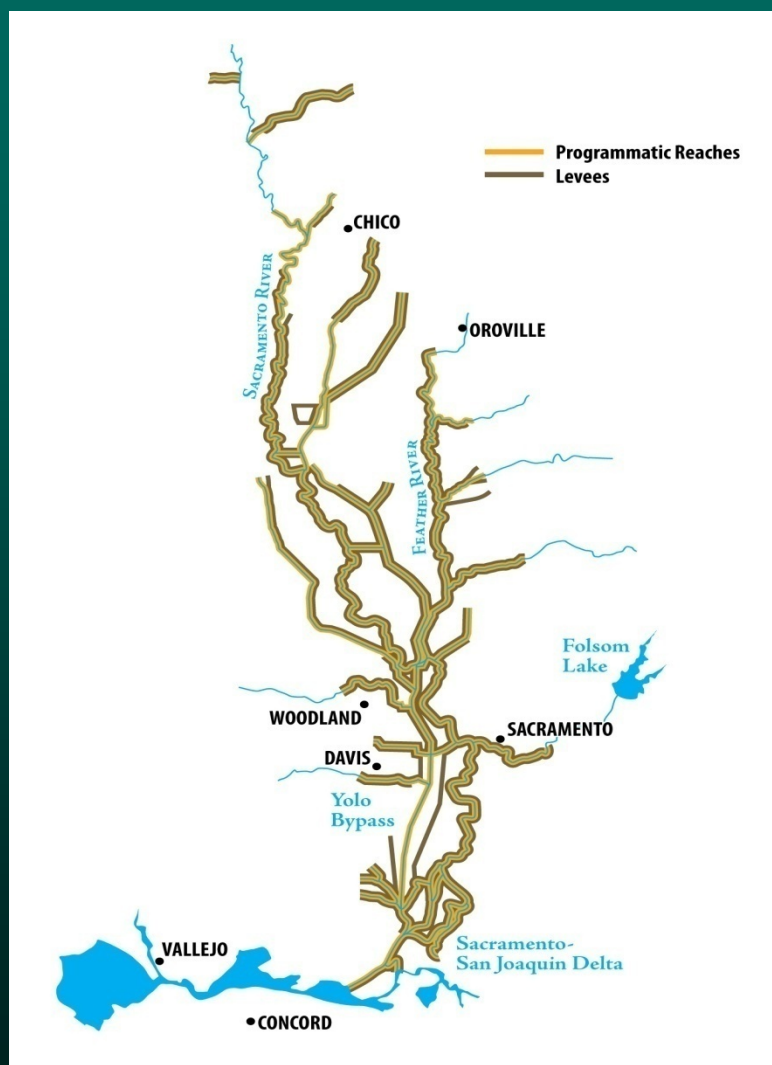


- Project Overview:
 - Purpose
 - Background
 - Status
- Authority
- Plan of Study
 - Approach
 - Policy Compliance
 - Other Issues



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Sacramento River Bank Protection Project – Project Area Map





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Purpose



- Intended to protect the integrity of the SRFCP
- Long-term bank protection and erosion control program
- Continuing construction project





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Background



- Original Authorization

- Phase I
- FCA of 1960
- PL 86-645
- 430,000 linear feet
- Completed in 1975
- No Mitigation

- Project Reauthorization

- Phase II
- RBMAA of 1974
- PL 93-252
- 405,000 linear feet
- 13,000 linear feet remain
- Mitigation Authorized





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Status



- Erosion Survey of SRFCP Levees occurs annually.
 - 2007 Inventory includes 152 sites.
 - 2008 Survey completed in October, Draft Report Jan 2009.
- Repair of Erosion Sites occurs annually.
 - 8 sites constructed in 2008.
 - 9,000 linear feet scheduled for 2009.
 - Prior to 1990's 10,000 feet repaired annually.

PRIORITY SITE RANKING FOR CRITICAL EROSION SITES ON THE SACRAMENTO RIVER FLOOD CONTROL LEVEES USING MULTIPLE RANKING METHODOLOGIES

January 16, 2006

Sacramento River Bank Protection Project, California
Contract No. DACW05-02-D-0002, Delivery Order 0009



Prepared For:



U.S. ARMY CORPS OF ENGINEERS
Sacramento District
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Sacramento CA 95814-2922

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ASSOCIATES

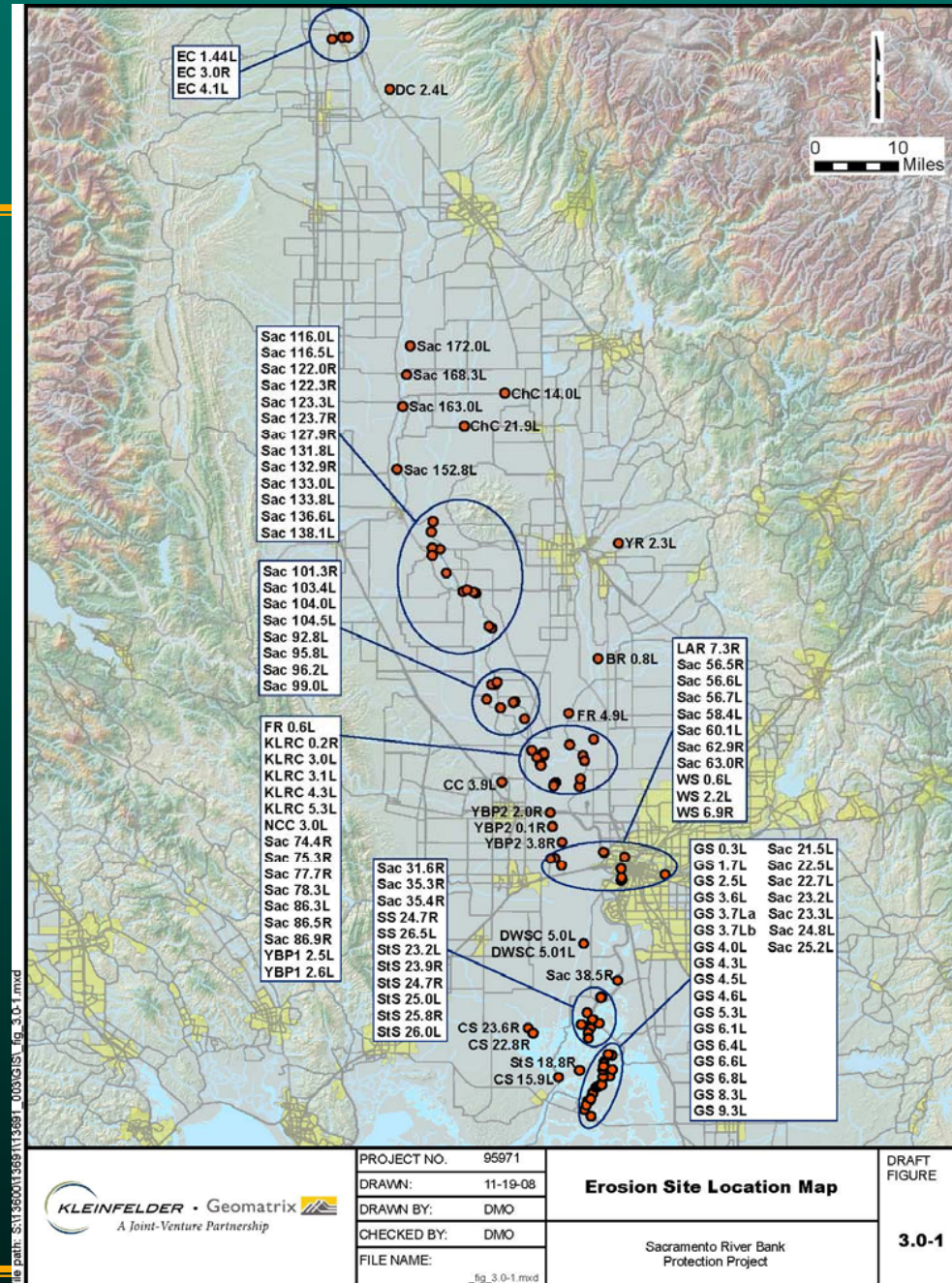




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Location of 80,000 LF of Erosion Sites

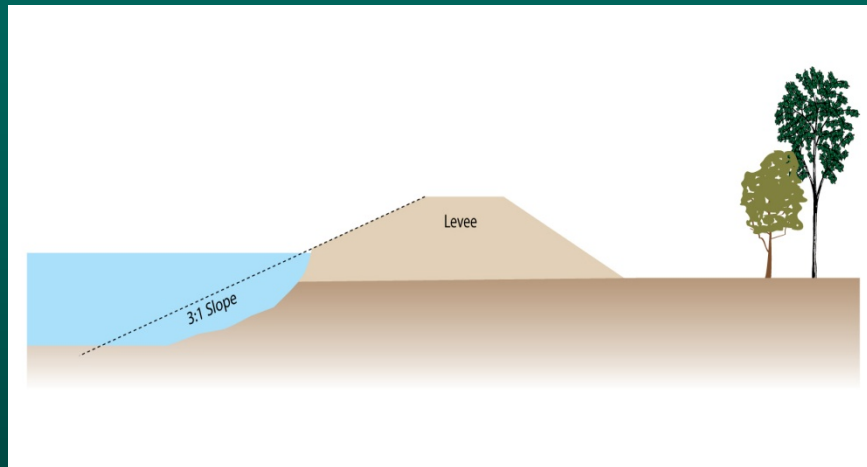




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New Authority



- Section 3031 of WRDA 2007 authorizes additional 80,000 linear feet
- Phase II grows from 405,000 to 485,000 linear feet
- Implementation Guidance issued by HQUSACE on 6 June 2008
- PADD is required in accordance with Appendix G of ER 1105-2-100



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Approach



Phase II Supplemental Authority

- PADD supported by an EDR
- System-wide Benefit Analysis
- Programmatic EIR/EIS
- Programmatic Real Estate Plan
- Target SPD approval in 2011

Phase III:

- Start in FY2009
- Policy Compliant
- Consider Multiple Objectives





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Policy Compliance



Anticipated deviations from Policy:

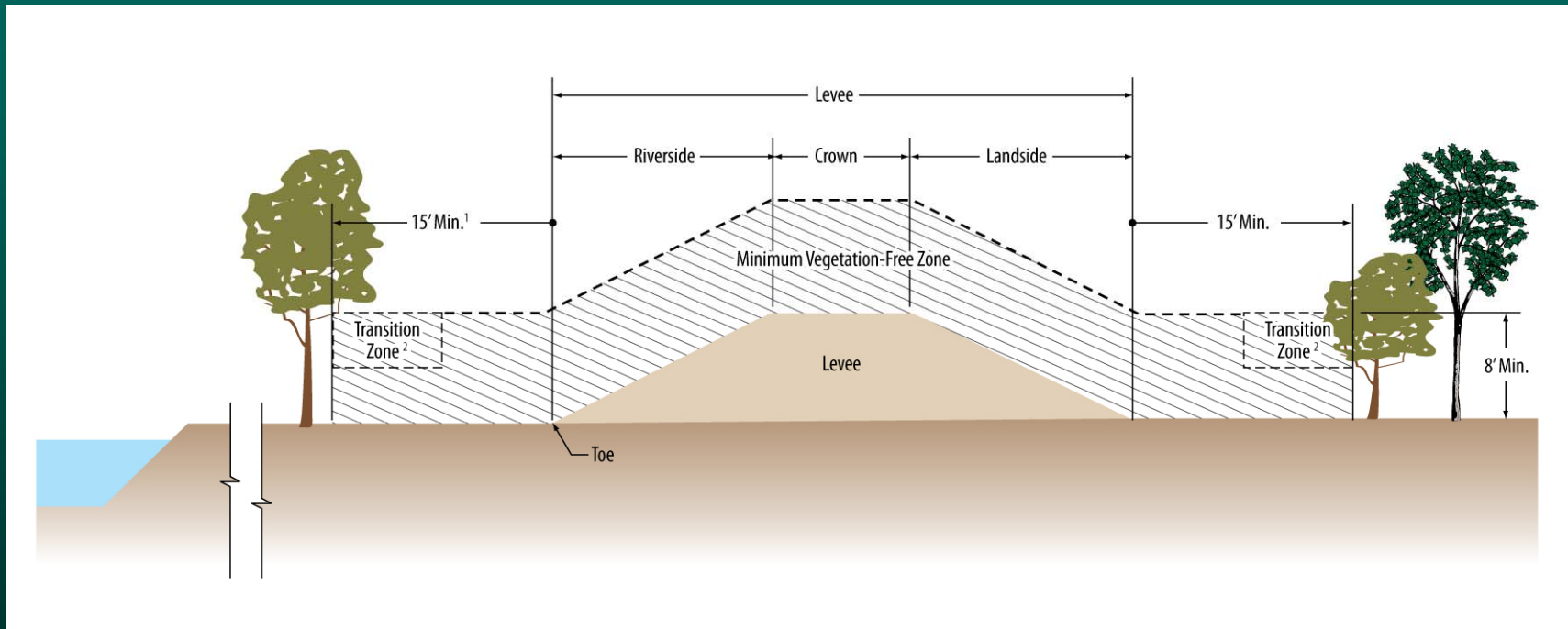


- No Plan Formulation
- Programmatic Benefit Analysis
- Simplified Risk Analysis
- No 902 Limit
- Programmatic Real Estate Plan



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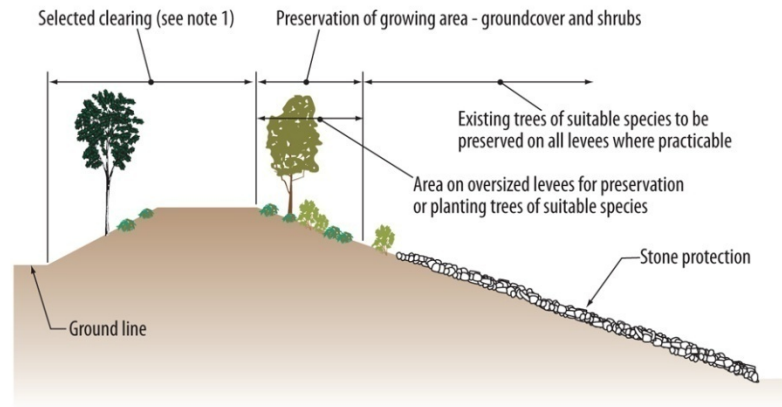
Vegetation on Levees



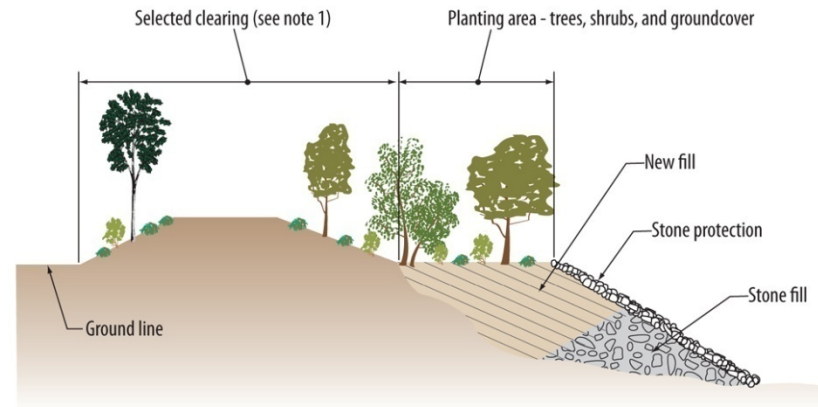


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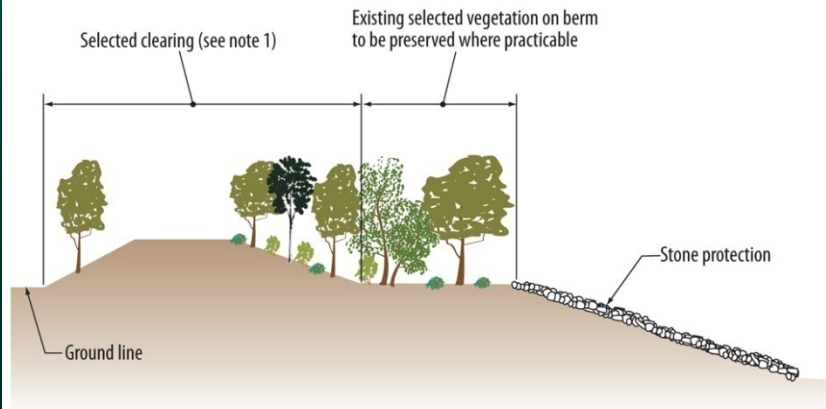
Vegetation on Levees



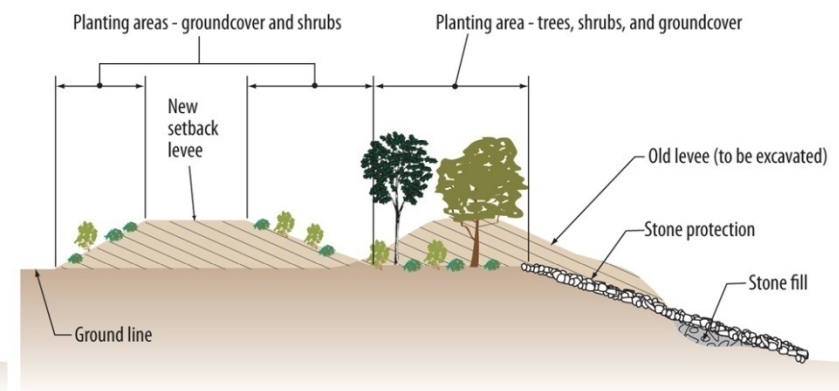
BANK PROTECTION - LEVEES WITHOUT BERMS



BANK PROTECTION - CONSTRUCTED BERM



BANK PROTECTION - LEVEES WITH BERMS



BANK PROTECTION - LEVEE SETBACK

Notes:

1. Selected clearing on oversized levees would preserve suitable species of trees and shrubs where practicable. Selected clearing on standard levees would preserve suitable species of shrubs where practicable.
2. Selected future volunteer growth on stone protection to be undisturbed by maintenance.

NOT TO SCALE



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Mitigation



- Overall approach consistent with recent SRBPP efforts with additional effort to:
 - Further maximize onsite mitigation
 - Mitigate off-site when on-site not feasible and/or adequate
 - Consider broader range of on-site/off-site mitigation scenarios
 - Consider use of appropriate Federal, State, or private habitat enhancement initiatives
 - Continue to use SAM, with supplemental analyses as needed



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Natural vs. Armored Banks

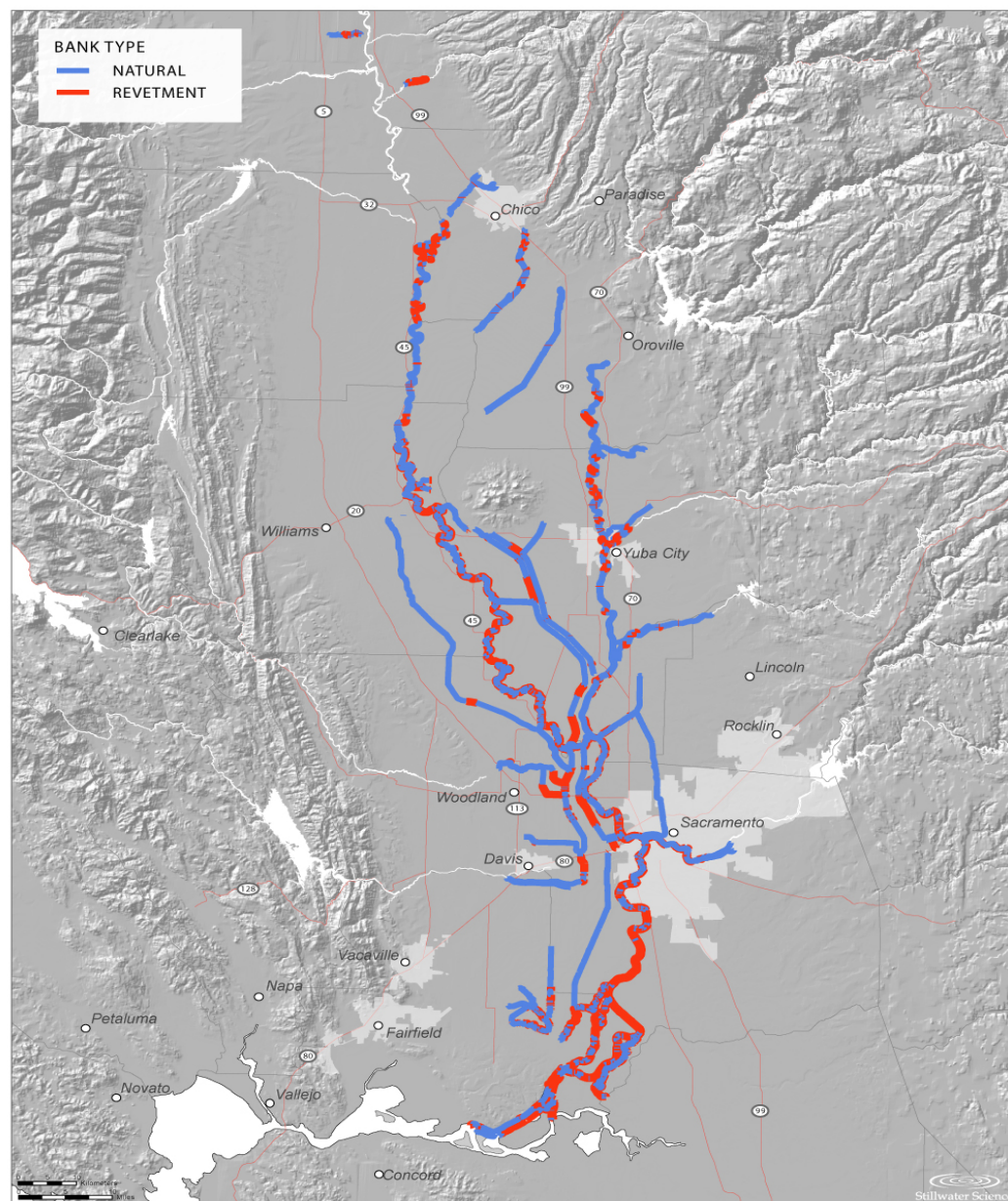


FIGURE 1. Bank type coverage within the SRBPP action area. Coverages are shown along both banks where applicable.





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Other Issues



- Vegetation on Levees
- Jeopardy Opinion
- Ability to Mitigate On and Off Site
- Species Recovery Plans
- O&M Practices and Manuals
- Mitigation Site Inventory and Monitoring



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Coordination with Other Programs



- Central Valley Flood Protection Plan
- State Plan of Flood Control
- Sacramento/San Joaquin River Basins Comprehensive Study
- American River Watershed Common Features GRR
- West Sacramento GRR
- Yuba River Basin GRR
- Sutter County Feasibility Study
- Levee Collaborative



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Stakeholder Feedback



- 5 Agency Interviews Completed, 2 Agency and NGOs Remaining
- Key Issues to Date
 - Reconciliation of veg policy with species recovery efforts
 - System-wide approach to avoid habitat fragmentation
 - Consideration of alternative designs
 - On-site mitigation prior to off-site
 - Coordination with other regional efforts
 - Continue in spirit of collaboration/cooperation



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Questions

